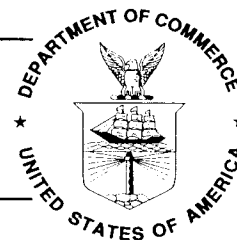


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Page 1 of 9

### CALIBRATION LABORATORIES

NVLAP LAB CODE 200406-0

#### STRATEGIC WEAPONS FAC. PACIFIC CAL. LAB. OPER. BY LOCKHEED MARTIN

6402 Skipjack Cir. Org. 43-50, Bldg. TSB

P.O. Box 6429, NSB Bangor

Silverdale, WA 98315-6429

Mr. Robert J. Ott

Phone: 360-396-8425 Fax: 360-396-6737

E-Mail: bob.ott@lmco.com

### DIMENSIONAL

NVLAP Code: 20/D03

Gage Blocks - Steel and Chrome Carbide

<i>Range in inches</i>	<i>Best Uncertainty (<math>\pm</math>) in <math>\mu</math> inches<sup>note 1</sup></i>	<i>Remarks</i>
0.01 to 0.09375 (except 0.05)	3.7	Mechanical Comparison
0.05	4.4	Mechanical Comparison
0.1 to 0.95 (except 0.35 and 0.85)	3.0	Mechanical Comparison
0.35	3.2	Mechanical Comparison
0.85	3.3	Mechanical Comparison
1.0	3.3	Mechanical Comparison
2.0	3.2	Mechanical Comparison
3.0	3.5	Mechanical Comparison
4.0	4.4	Mechanical Comparison

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Page 2 of 9

### CALIBRATION LABORATORIES

NVLAP LAB CODE 200406-0

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5.0	9.7	Mechanical Comparison
6.0	10.0	Mechanical Comparison
7.0	10.3	Mechanical Comparison
8.0	10.6	Mechanical Comparison
10.0	11.3	Mechanical Comparison
12.0	12.1	Mechanical Comparison
16.0	14.0	Mechanical Comparison
20.0	16.1	Mechanical Comparison

### Gage Blocks - Ceramic and Tungsten Carbide

0.01 to 0.09375 (except 0.05)	4.7	Mechanical Comparison
0.05	5.4	Mechanical Comparison
0.1 to 0.95 (except 0.35 and 0.85)	4.0	Mechanical Comparison
0.35	4.2	Mechanical Comparison
0.85	4.3	Mechanical Comparison
1.0	4.3	Mechanical Comparison

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## Scope of Accreditation



Page 3 of 9

CALIBRATION LABORATORIES

NVLAP LAB CODE 200406-0

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2.0	5.2	Mechanical Comparison
3.0	6.5	Mechanical Comparison
4.0	8.4	Mechanical Comparison

**NVLAP Code:** 20/D11

Spherical Diameter, Plug Ring Gages

<i>Range in inches</i>	<i>Best Uncertainty (<math>\pm</math>) in <math>\mu</math> inches<sup>note 1</sup></i>	<i>Remarks</i>
Ring Gages		
>0 to 8.0	20	Comparison to Gage Blocks
Plug Gages		
>0 to 3.0	40	Comparison to Gage Blocks

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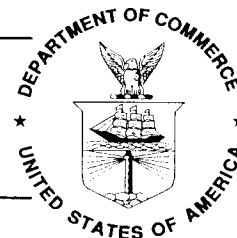
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## Scope of Accreditation



Page 4 of 9

### CALIBRATION LABORATORIES

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*NVLAP Code:* 20/D14

Threaded Plug and Ring Gages

Threaded Plug Gages, 60°

	<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Pitch Diameter	> 0 to 6.0 in	90 $\mu$ in	Three Wire Method
Major Diameter	> 0 to 6.0 in	40 $\mu$ in	Universal Measuring Machine
Half Angle	60°	3 arc minutes	Optical Comparator Inspection
Pitch	4 to 80 TPI	100 $\mu$ in	Universal Measuring Machine

Threaded Ring Gages, 60°

Minor Diameter	> 0 to 6.0 in	40 $\mu$ in
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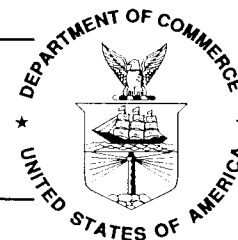
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## Scope of Accreditation



Page 5 of 9

### CALIBRATION LABORATORIES

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### ELECTROMAGNETICS - DC/LOW FREQUENCY

*NVLAP Code:* 20/E02

AC Current

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Frequency Range</i>
10 $\mu$ A to 220 $\mu$ A	176 to 9100	10 Hz to 10 kHz
220 $\mu$ A to 2.2 mA	148 to 4300	10 Hz to 10 kHz
2.2 mA to 22 mA	148 to 3500	10 Hz to 10 kHz
22 mA to 220 mA	144 to 1580	10 Hz to 10 kHz
220 mA to 2.2 A	318 to 7800	20 Hz to 10 kHz
2.2 A to 11 A(w/5725A)	417 to 3375	40 Hz to 10 kHz

*NVLAP Code:* 20/E05

DC Current

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
10 $\mu$ A to 220 $\mu$ A	74 to 360	
220 $\mu$ A to 2.2 mA	39 to 71	
2.2 mA to 22 mA	37 to 58	
22 mA to 220 mA	59 to 87	

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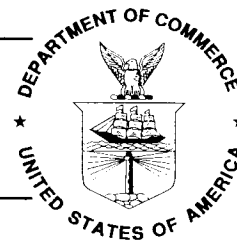
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## Scope of Accreditation



Page 6 of 9

CALIBRATION LABORATORIES

NVLAP LAB CODE 200406-0

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220 mA to 2.2 A	125 to 183
2.2 A to 11 A(w/5725A)	388 to 558

*NVLAP Code:* 20/E05  
DC Resistance

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
1.0	1	Using Guildline Bridge
10.0	1	Using Guildline Bridge
100.0	1	Using Guildline Bridge
1000.0	1	Using Guildline Bridge
10000.0	1	Using Guildline Bridge
100000.0	2	Using Guildline Bridge

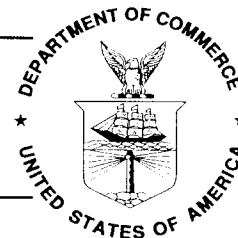
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## Scope of Accreditation



Page 7 of 9

CALIBRATION LABORATORIES

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**NVLAP Code:** 20/E06

DC Voltage

<i>Range (±)</i>	<i>Best Uncertainty (±) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
0.1 V	8.1	Compared to 10 V Reference Cell
1.0 V	1.3	Compared to 10 V Reference Cell
10.0 V	1.0	Compared to 10 V Reference Cell
100.0 V	1.0	Compared to 10 V Reference Cell
1000.0 V	1.1	Compared to 10 V Reference Cell

**NVLAP Code:** 20/E09

LF AC Voltage

<i>Range</i>	<i>Best Uncertainty (±) in ppm<sup>note 1</sup></i>	<i>Frequency Range</i>
1 mV to 220 mV	126 to 28000	10 Hz to 1 Mhz
220 mV to 2.2 V	52 to 4409	10 Hz to 1 Mhz
2.2 V to 22 V	50 to 3200	10 Hz to 1 Mhz
22 V to 220 V	63 to 13348	10 Hz to 1 Mhz
220 V to 250 V	400 to 410	15 Hz to 50 Hz
220 V to 1100 V	79 to 100	50 Hz to 1 kHz
220 V to 1100 V (w/5725A)	85 to 1360	40 Hz to 30 kHz

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## Scope of Accreditation



Page 8 of 9

CALIBRATION LABORATORIES

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### TIME AND FREQUENCY

*NVLAP Code:* 20/F01

Frequency Dissemination

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.1 MHz	2 parts in $10^{12}$ Hz	
1 MHz	2 parts in $10^{12}$ Hz	
5 MHz	2 parts in $10^{12}$ Hz	
10 MHz	2 parts in $10^{12}$ Hz	

*NVLAP Code:* 20/F02

Time Dissemination

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
1 pps	10 $\mu$ s	

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## Scope of Accreditation



Page 9 of 9

CALIBRATION LABORATORIES

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**NVLAP Code:** 20/F03

Oscillator Characterization

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.1 MHz	2 parts in $10^{12}$ Hz	
1 MHz	2 parts in $10^{12}$ Hz	
5 MHz	2 parts in $10^{12}$ Hz	
10 MHz	2 parts in $10^{12}$ Hz	

1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

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